

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P954725

Luminaire Tested: **GALN-SB7D-927-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-927-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45361 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

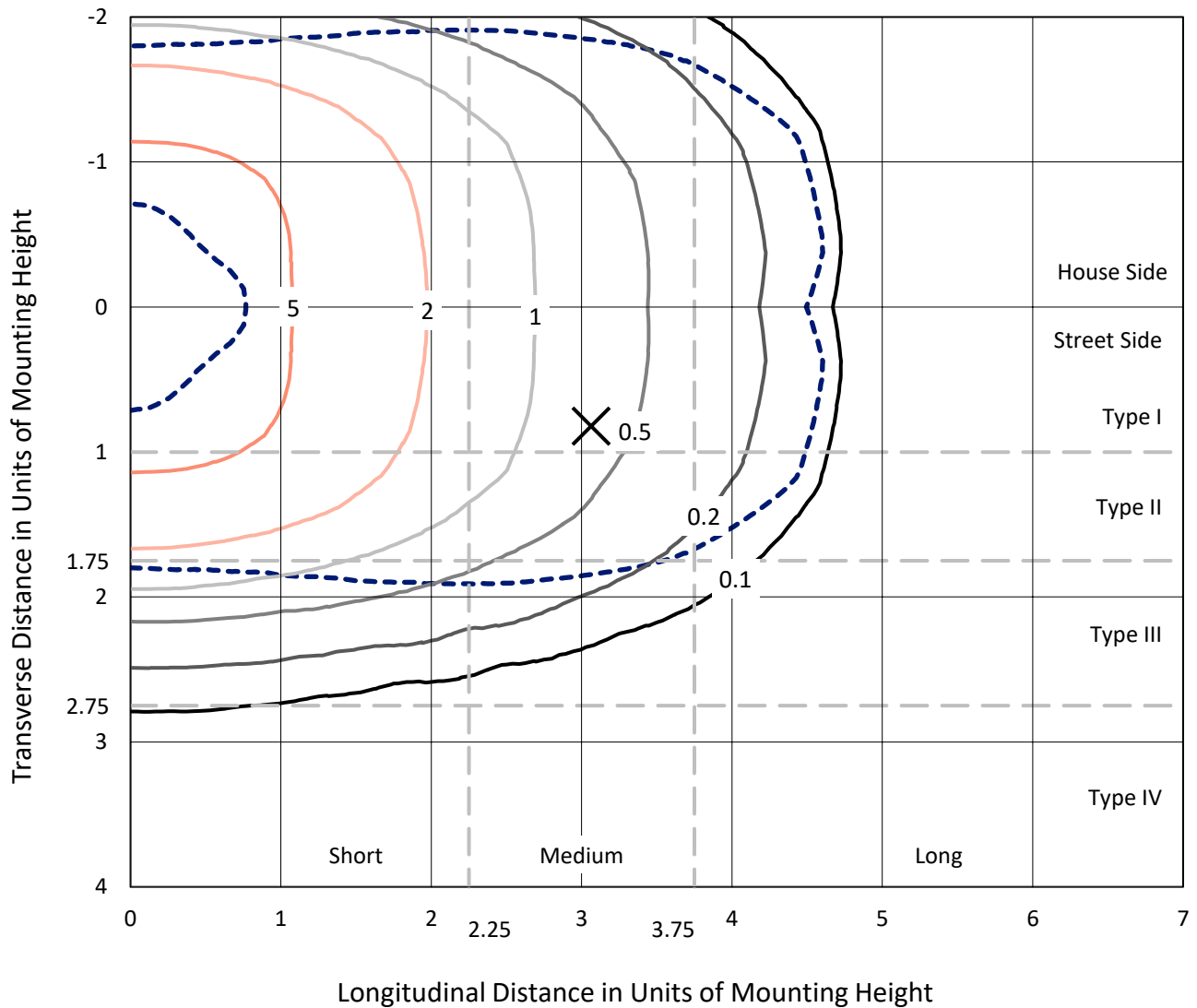
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

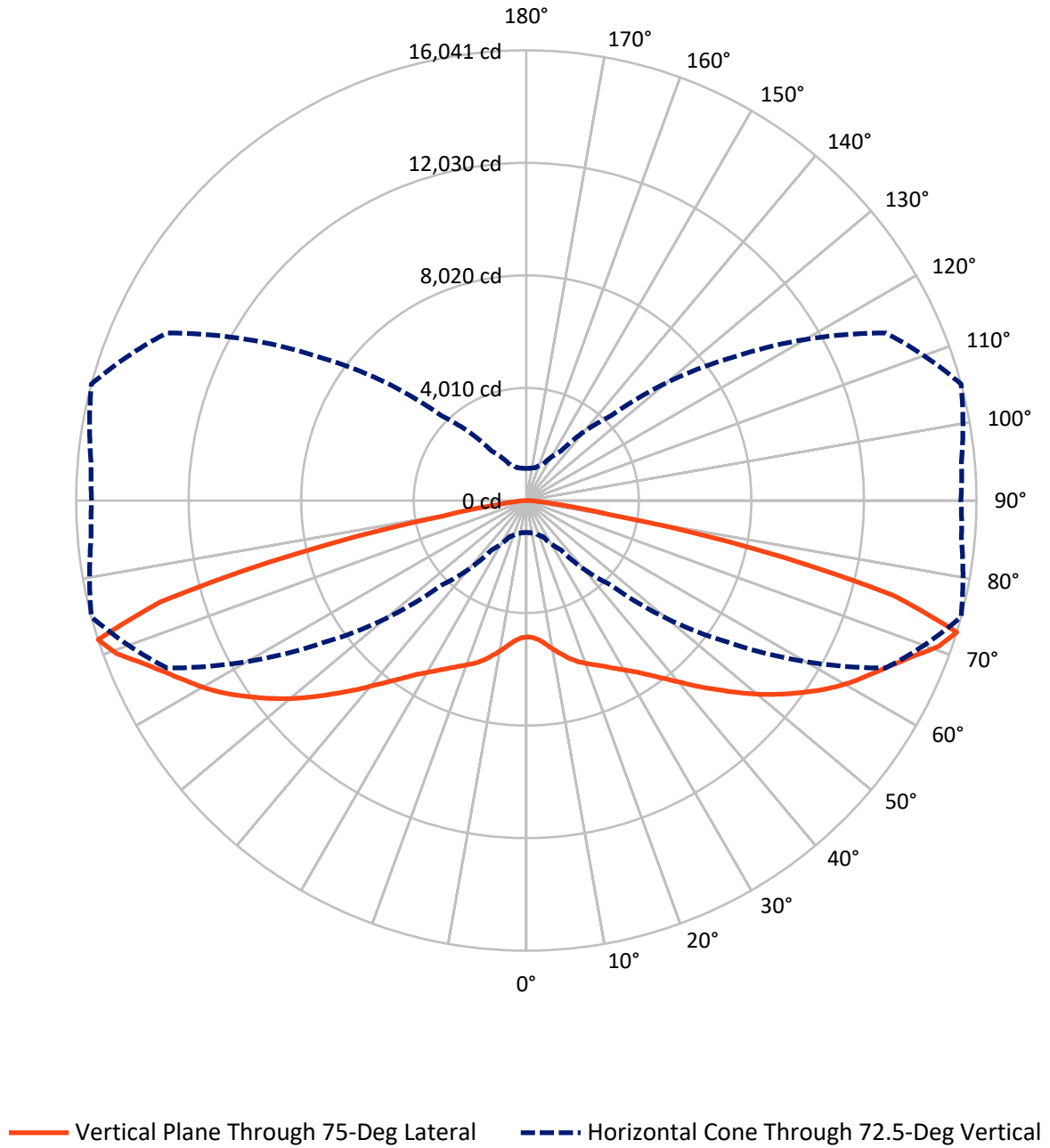
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 22680.5 | 0.0 | 22680.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 22680.5 | 0.0 | 22680.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 45361.0 | 0.0 | 45361.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 476.0 | 1.0 |
| 10°-20° | 1569.9 | 3.5 |
| 20°-30° | 3033.5 | 6.7 |
| 30°-40° | 5122.2 | 11.3 |
| 40°-50° | 8123.2 | 17.9 |
| 50°-60° | 10876.0 | 24.0 |
| 60°-70° | 10350.5 | 22.8 |
| 70°-80° | 5401.0 | 11.9 |
| 80°-90° | 408.8 | 0.9 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 45361.0 | 100.0 |
| 0°-180° | 45361.0 | 100.0 |

Coefficient of Utilization



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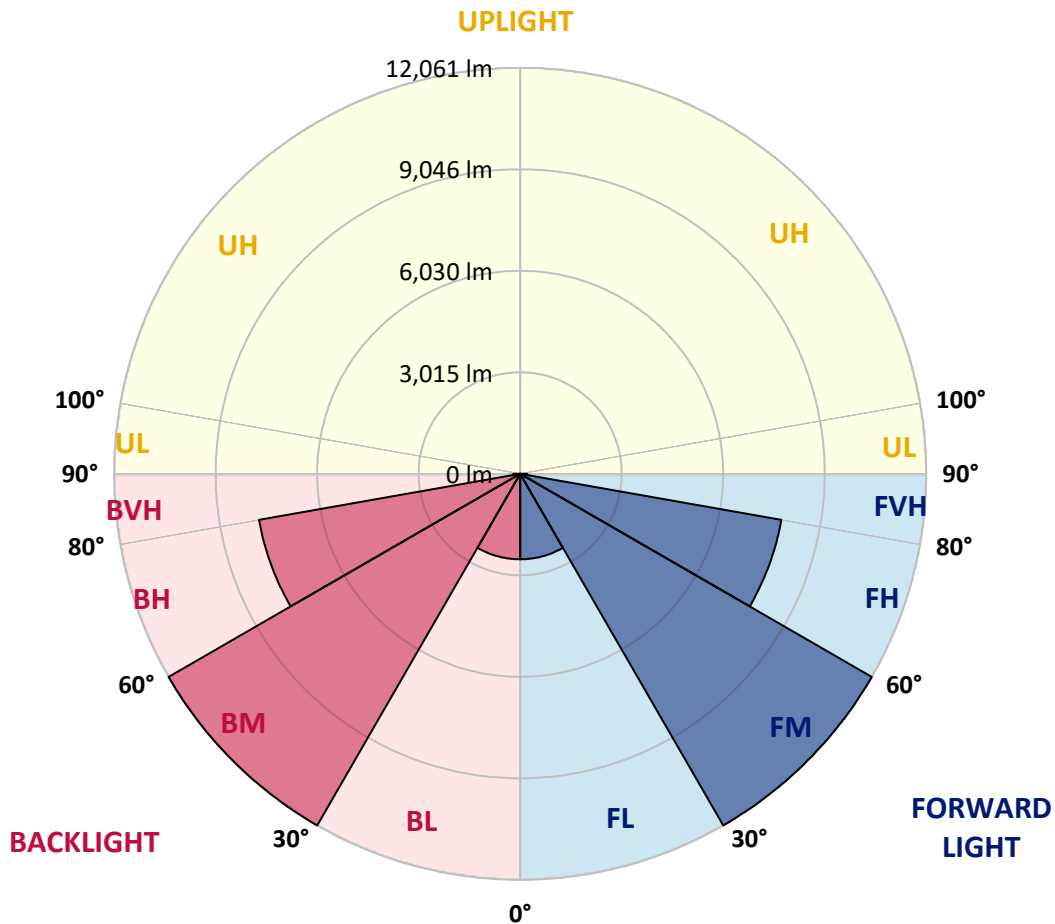
CATALOG NUMBER: GALN-SB7D-927-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2539.7 | 5.6 | | | |
| FM (30°-60°) | 12060.7 | 26.6 | | | |
| FH (60°-80°) | 7875.8 | 17.4 | | | G4/12000 |
| FVH (80°-90°) | 204.4 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2539.7 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 12060.7 | 26.6 | B5 | | |
| BH (60°-80°) | 7875.8 | 17.4 | B5 | | G5 |
| BVH (80°-90°) | 204.4 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4859.0 | 4859.0 | 4859.0 | 4859.0 | 4859.0 | 4859.0 | 4859.0 | 4859.0 | 4859.0 | 4859.0 |
| 2.5° | 4859.0 | 4854.3 | 4859.0 | 4863.6 | 4861.3 | 4861.3 | 4872.9 | 4879.8 | 4893.7 | 4891.4 |
| 5° | 4826.6 | 4824.2 | 4842.8 | 4863.6 | 4879.8 | 4907.6 | 4942.4 | 4967.8 | 5000.3 | 5007.2 |
| 7.5° | 4810.3 | 4803.4 | 4835.8 | 4872.9 | 4923.8 | 4993.3 | 5060.5 | 5129.9 | 5185.5 | 5204.1 |
| 10° | 4821.9 | 4824.2 | 4868.2 | 4937.7 | 5018.8 | 5116.1 | 5211.0 | 5329.1 | 5407.9 | 5426.4 |
| 12.5° | 4875.2 | 4870.6 | 4944.7 | 5055.8 | 5167.0 | 5289.8 | 5400.9 | 5530.6 | 5616.3 | 5660.3 |
| 15° | 4972.5 | 4963.2 | 5067.4 | 5231.9 | 5394.0 | 5537.6 | 5627.9 | 5750.6 | 5850.2 | 5905.8 |
| 17.5° | 5088.3 | 5092.9 | 5229.5 | 5442.6 | 5655.7 | 5817.8 | 5903.5 | 5966.0 | 6042.5 | 6091.1 |
| 20° | 5292.1 | 5301.3 | 5454.2 | 5706.6 | 5949.8 | 6135.1 | 6204.6 | 6181.4 | 6202.3 | 6239.3 |
| 22.5° | 5565.4 | 5570.0 | 5741.4 | 6014.7 | 6269.4 | 6473.2 | 6519.5 | 6424.6 | 6366.7 | 6392.2 |
| 25° | 5882.6 | 5912.8 | 6084.1 | 6364.4 | 6626.1 | 6820.6 | 6841.5 | 6697.9 | 6554.3 | 6561.2 |
| 27.5° | 6269.4 | 6297.2 | 6470.9 | 6748.8 | 7015.2 | 7184.2 | 7181.9 | 6989.7 | 6778.9 | 6725.7 |
| 30° | 6688.6 | 6718.7 | 6897.1 | 7184.2 | 7432.1 | 7580.3 | 7547.9 | 7318.6 | 7017.5 | 6917.9 |
| 32.5° | 7186.6 | 7205.1 | 7385.7 | 7672.9 | 7902.2 | 8020.3 | 7953.2 | 7670.6 | 7295.4 | 7181.9 |
| 35° | 7788.7 | 7816.5 | 7950.8 | 8221.8 | 8423.3 | 8520.6 | 8407.1 | 8073.6 | 7652.1 | 7524.7 |
| 37.5° | 8476.6 | 8458.0 | 8610.9 | 8851.8 | 9018.5 | 9078.7 | 8923.6 | 8527.5 | 8059.7 | 7909.2 |
| 40° | 9194.5 | 9185.3 | 9352.0 | 9583.6 | 9673.9 | 9711.0 | 9481.7 | 9048.6 | 8529.8 | 8367.7 |
| 42.5° | 9845.3 | 9838.4 | 10063.0 | 10320.1 | 10429.0 | 10387.3 | 10097.8 | 9602.2 | 9074.1 | 8888.8 |
| 45° | 10366.4 | 10357.2 | 10632.8 | 10994.1 | 11207.1 | 11137.7 | 10748.6 | 10213.6 | 9625.3 | 9433.1 |
| 47.5° | 10767.1 | 10771.7 | 11068.2 | 11515.2 | 11888.0 | 11913.5 | 11413.3 | 10836.6 | 10232.1 | 10014.4 |
| 50° | 11056.6 | 11070.5 | 11387.8 | 11883.4 | 12392.9 | 12617.6 | 12091.9 | 11475.8 | 10859.7 | 10614.2 |
| 52.5° | 11128.4 | 11153.9 | 11536.0 | 12117.3 | 12717.2 | 13145.6 | 12782.0 | 12089.5 | 11455.0 | 11221.0 |
| 55° | 10746.3 | 10797.2 | 11281.3 | 12098.8 | 12916.4 | 13493.0 | 13388.8 | 12712.5 | 12054.8 | 11813.9 |
| 57.5° | 9868.5 | 9940.3 | 10505.4 | 11573.1 | 12872.3 | 13731.6 | 13859.0 | 13310.1 | 12654.6 | 12423.0 |
| 60° | 8638.7 | 8724.4 | 9266.3 | 10431.3 | 12251.7 | 13819.6 | 14190.2 | 13891.4 | 13205.9 | 12981.2 |
| 62.5° | 6783.6 | 6894.7 | 7543.2 | 8909.7 | 10940.8 | 13409.7 | 14472.7 | 14417.1 | 13701.5 | 13421.2 |
| 65° | 4351.8 | 4469.9 | 5153.1 | 6767.4 | 9192.2 | 12154.4 | 14560.7 | 14929.0 | 14224.9 | 13833.5 |
| 67.5° | 2624.0 | 2677.3 | 3015.4 | 4101.6 | 6718.7 | 10262.2 | 13815.0 | 15496.4 | 14836.3 | 14350.0 |
| 70° | 1679.1 | 1709.2 | 1910.7 | 2408.6 | 3798.2 | 7487.6 | 11966.8 | 15602.9 | 15577.4 | 14880.3 |
| 72.5° | 1139.5 | 1148.7 | 1202.0 | 1426.7 | 2149.3 | 4254.5 | 8826.3 | 14125.3 | 16040.6 | 15563.5 |
| 75° | 833.8 | 884.7 | 970.4 | 1009.8 | 1220.5 | 2126.1 | 5058.2 | 9924.1 | 13518.5 | 13727.0 |
| 77.5° | 620.7 | 623.0 | 741.1 | 787.4 | 870.8 | 1132.5 | 2140.0 | 5539.9 | 8393.2 | 8812.4 |
| 80° | 525.7 | 497.9 | 495.6 | 634.6 | 655.4 | 706.4 | 956.5 | 1913.0 | 3006.2 | 1822.7 |
| 82.5° | 437.7 | 407.6 | 368.2 | 495.6 | 447.0 | 433.1 | 414.6 | 778.2 | 956.5 | 470.1 |
| 85° | 305.7 | 291.8 | 277.9 | 324.2 | 254.8 | 217.7 | 199.2 | 363.6 | 403.0 | 199.2 |
| 87.5° | 132.0 | 136.6 | 139.0 | 143.6 | 106.5 | 76.4 | 76.4 | 101.9 | 101.9 | 78.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 4859.0 |
| 4889.1 |
| 5007.2 |
| 5208.7 |
| 5444.9 |
| 5678.8 |
| 5926.7 |
| 6114.2 |
| 6267.1 |
| 6410.7 |
| 6572.8 |
| 6741.9 |
| 6929.5 |
| 7209.7 |
| 7543.2 |
| 7936.9 |
| 8421.0 |
| 8935.1 |
| 9477.1 |
| 10079.2 |
| 10688.4 |
| 11281.3 |
| 11881.1 |
| 12476.3 |
| 13029.8 |
| 13453.7 |
| 13882.1 |
| 14387.0 |
| 14875.7 |
| 15489.4 |
| 13222.1 |
| 7860.5 |
| 1378.0 |
| 400.7 |
| 176.0 |
| 57.9 |
| 0.0 |

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